91-364169/50 A23 TORA 15.02.90
TORAY IND INC *J0 3237-155-A
15.02.90-JP-034545 (23.10.91) C08g-81 C08j-05/18 C08l-69 C08l-77/10

Aromatic polycarbonate-aromatic polyamide block copolymer - has excellent storage stability, mechanical properties and transparency - C91-156785

An aromatic polycarbonate aromatic polyamide block copolymer contains a copolymer consisting of an aromatic polycarbonate (PC) segment and an aromatic polyamide (PA) segment and an aromatic PA in amt. 10-100 wt.%.

ADVANTAGE

Solution of the product has excellent storage stability because of excellent compatibility. Product excels in mechanical properties and transparency because two polymers give micro-dispersion in a film restricting the generation of micro-voids.

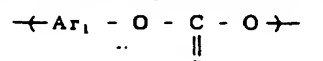
PREFERRED

The copolymer compsn. contains at least one of aromatic PA and a soluble resin and a block copolymer of aromatic PC (consisting of aromatic PC segment and aromatic PA segment) with aromatic PA. Soluble resin is aromatic PC

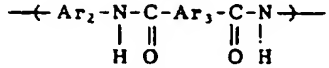
A(5-E6A, 5-F5, 12-S)

DETAILS

Aromatic PC segment pref. contains at least 50 (esp. 70%) of repeated units such as



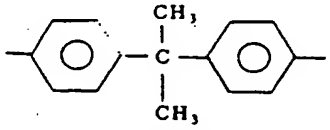
(I)



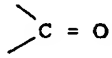
(II)

(Ar_1 - Ar_3 contain at least one aromatic ring)

Aromatic PC segment contains repeated units of formula



and



(10ppW171PADwgNo0/0).

J03237155-A

91-364170/50 A25 (A85) FURU 14.02.90
FURUKAWA ELECTRIC CO *J0 3237-156-A
14.02.90-JP-031516 (23.10.91) B29c-39 B29k-75 B29k-105/16 C08g-18/79 C08k-03/04 C08l-75/04

Castable semiconductor urethane compsn. for car parts, etc. - comprises active hydrogen contg. cpd., poly isocyanate cpd., electroconductive carbon black and cyclic isocyanurate cpd. C91-156786

Castable semiconductor urethane compsn. comprises an active H-contg. cpd. and a polyisocyanate cpd. which are admixed with an electroconductive carbon black

The novelty is that the compsn. comprises 1.0-10.0 wt. % isocyanurate cyclic cpd.

USES/ADVANTAGES

The compsn. is used for car parts, housing of office equipment, electric insulators, etc. Prod. gives moulding with improved corona generating voltage, reducing compression set, and gives a balanced elongation.

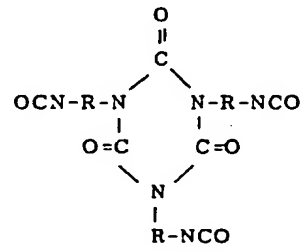
EMBODIMENT

The polyisocyanate is e.g. tolylene diisocyanate, diphenylmethane diisocyanate, or a prod. of isocyanate and polyols. The active H -contg. cpd. is polyetherpolyol or polyesterpolyol with mol. wt. 800-1200 or multifunctional

A(5-G1B, 5-J2, 8-M9A, 8-R3, 9-A3)

A 1283

polyol or diamine. The electroconductive carbon black is acetylene black, Ketjen black EC or Vulcan XC-72. Particle size: entire particles pass the sieve of 200 mesh, and at least 80% pass 325 mesh. Amt. of carbon black is pref. 0.5-5 wt%. The isocyanurate cyclic cpd. is of formula (I)



(I)

R = not defined.

(6ppW171MBDwgNo0/0)

J03237156-A

91-364175/50 A25 NIPO 16.02.90
NIPPON POLYURETHANE KK *J0 3239-715-A
16.02.90-JP-033886 (25.10.91) C08g-18/42 C08g-101 C08j-09/02 C08l-75/04

Moisture- and heat-resistant soft polyurethane foam - based on polyester-polyol from sebacic acid, tri-methylol-propane, di-ethylene glycol and hexane diol, for footwear, etc. C91-156791

Soft polyurethane foam having high resistance against moisture is prepd. from:

(A) an organic diisocyanate;

(B) a polyesterpolyol prepd. by reacting (B_1) acid component(s) comprising sebacic acid or its blend with other dicarboxylic acid and (B_2) polyhydric alcohol components comprising (B_{21}) trimethylolpropane, (B_{22}) diethylene glycol and (B_{23}) 1,6- hexane diol and 3-methyl-1,5-pentane diol in a mol. ratio of (B_{22})/(B_{23}) = 40/6 - 80/20 and having a $\overline{Mn}$ of 1000 - 4000 and number average fuctional gps. = 2.2 - 4.0;

(C) a foaming agent;

(D) a catalyst; and

(E) a surfactant.

ADVANTAGE/USE

The soft foam has acceptable touch and high resistance

A(8-B1, 8-S1, 11-B6, 12-S2C, 12-S2E)

A 0284

against moisture. It is used for clothes, footwear or industrial parts.

EMBODIMENT

(A) is e.g. hexamethylene-, lysine-, toluene-, phenylene-, 4,4'-diphenylmethane-, 3,3'-dimethyltoluidine-, naphthalene-, 4,4'-dicyclohexylmethane- or isophorone diisocyanate.

(B_1) is sebacic acid solely or in combination with other dicarboxylic acid (e.g. adipic or azelaic acid).

(A) and (B) are used in a mol. ratio of NCO/OH = 0.9 - 1.2. An insufficient mol. ratio provides the lower mol. wt. polymer to degrade the tensile strength, ultimate elongation and tearing strength and its excessive ratio increases extraordinarily the cross-linking degree and reduces the ultimate elongation.

(C) is pref. H_2O opt. blended with other conventional foaming agent.

(D) is e.g. polyoxyalkylenealkyl ether, polyoxyalkylene-alkylaminoether, organopolysiloxane or siloxane/oxyalkylene copolymer. The foaming compsn. is blended opt. with an antioxidant, UV absorber, filler flame-retarding agent.

J03239715-A

XP 214 8960